Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1				1	100.00	**100.00**
11	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI. KIRLOSKAR and other Equivalent Pumps **PWD SR 2015-16 P. XXXX Item No. 24 including of all taxes(12.5 HP 25 Stage)**	No	1				**1**	60400.00	**60400.00**
12	KSRB 13.3.6: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) **50mm** dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour, charges HOM of equipments complete as per specifications. Specification No. KBS 13.2.14 /13.6 **Page No. 90 / Item No. 13.15 / PWD SR 2015-16**	M							
			1	260.00			**260.00**	431.00	**112060.00**
13	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr							
			2x1	270.00			**540.00**	126.70	**68418.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15)**	Per Length							
	(780/6)=130.00		1	130.00			**130**	88.00	**11440.00**
15	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.. **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each							
			1				**1**	302.00	**302.00**
16	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated. extruded inner sheathed. galvanized. steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			1	30.00			**30.00**	140.40	**4212.00**
17	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			1	30.00			**30.00**	10.80	**324.00**
18	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.. complete.(As per Civil SR KSRB 1-2. P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
	For Cutting Road Surface		1	25.00			**25.00**	85.00	**2125.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
	40mm dia GI pipe		1	4.00			**4.00**	345.00	**1380.00**
20	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
	16Sqmm		1				**1.00**	280.00	**280.00**
21	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia. **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No							
			1				**1**	2727.00	**2727.00**
22	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No.							
	32 Amps		1x6				**6**	180.00	**1080.00**
23	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 90 Item No. 13.55 / PWD SR 2015-16 50 mm dia**	Nos							
			1				**1**	1579.40	**1579.00**
	Basic Rate	1490.00							
	Area Weightage @ 6%	89.40							
	Total	**1579.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
24	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No. 92 / I. No. 13.81.3 PWD SR 2014-15**	No							
	50mm dia		1				1	227.90	**228.00**
	Basic Rate	215.00							
	Area Weightage @ 6%	12.90							
	Total	**227.90**							
25	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete **P. XXXVII PWD SR 2015-16**	No							
			1	4.00			4	104.30	**417.00**
26	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps Group A TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15**	No							
			1				1	1547.00	**1547.00**
27	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15**	Sq.Cm							
	16SWG		2x1	120.00	60.00		14400.00		
			1	360.00	25.00		9000.00		
							23400.00	0.33	7722.00
28	Supplying fully automatic store detta starer unit push button type with suitable wires three contractors one adjustable termal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3pase and wired offter fixing to the wooden board for motor upto **12.50 HP (KPWD electrical SR for 2014-15 Page No. 44 Item No. 6.2.1)**	No.							
			1				1	6583.00	6583.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
29	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			1	250.00	0.60	0.75	112.50		
							112.50	188.00	**21150.00**
30	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
			1	250.00			250.00		
	75 mm dia 6 KSC PVC pipe						**250.00**	157.00	**39250.00**
31	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
			Qty. Vide Item No. 27				**112.50**	61.00	**6863.00**
	Basic Rate	61.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
32	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 92 / I.13.37 PWD SR - 2015-16**	Each							
			3				3	2120.00	**6360.00**
	Basic Rate	2000.00							
	Area Weightage @ 6%	120.00							
	Total	**2120.00**							
	Sub Total								**612502.00**
	BESCOM Deposit for Borewell	L/S	1	20000.00					**20000.00**
	Miscellaneous and Unforeseen Charges	L/S							**4998.00**
								Total	**637500.00**
(Rupees Six Lakhs Thirty Seven Thousand five Hundred Only)									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per C.S.R. of PWD 2015-16, PWD Elecrical 2014-15, PRED 2012-13 & SE-RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
Yelahanka Project
BBMP

Assistant Executive Engineer
Yelahanka Project
BBMP

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Yelahanka Project
BBMP

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

19/9/19

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BRUHAT BANGALORE MAHANAGARA PALIKE

ELECTRICAL DIVISION

DETAILED ESTIMATE FOR PUBLIC WORKS

NAME OF PROJECT : BALANCE WORKS TO SAMUDHAYA BHAVANA IN WARD NO.2

Est. No.AEE-1 /ELE/SZ/ EST/ / 18-19

Pg No	Sl no	Description of Work	amount unit	Qty	Rs Rate	176217.00 Amount
	1.00	**PVC CONDUIT & ITS ACCESSORIES**				
	1.2	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary (Item No. - 1.2)				
	1.2.2	25mm dia 2mm thick (Item No. - 1.2.2)	Mtr	50	57.00	2,850.00
	1.3	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (Item No. - 1.3)				-
	1.3.2	25mm dia 2mm thick (Item No. - 1.3.2)	Mtr	40	58.00	2,320.00
	1.3.4	40mm dia 2.5mm thick (Item No. - 1.3.4)	Mtr	40	101.00	4,040.00
	1.9	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely (Item No. - 1.9)				-
	1.9.1	20mm (Item No. - 1.9.1)	Mtr	45	23.00	1,035.00
3	1.7	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete.				
	1.7.1	upto 50mm conduit in brick wall	Mtr	30	21	630
	1.7.2	upto 50mm conduit CC floor	Mtr	35	38	1330
	2.00	**WIRES & CABLES**				
5	2.3	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A				
	2.3.1	Short point upto 3Mtr from tapping point to out let via switch box	Point	7	144	1008
	2.3.2	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point	15	215	3225
	2.3.3	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point	18	334	6012

Pg No	Sl no	Description of Work	unit	Qty	Rate	Amount
6	2.5	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.				
	2.5.2	1.5 sqmm	Mtr.	20	18.6	372
	2.5.3	2.5 sqmm	Mtr.	30	29.2	876
	2.5.4	4 sqmm	Mtr.	50	42.1	2105
	2.5.5	6 sqmm	Mtr.	10	63.8	638
	2.5.6	10 sqmm	Mtr.	40	108	4320
	3.00	**SWITCHES SOCKETS & ACCESSORIES**				
15	3.5	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall				
	3.5.1	1-3Way	Each	15	91	1365
	3.5.3	6Way	Each	18	121	2178
	3.5.4	8Way	Each	8	140	1120
16	3.6	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.				
	3.6.1	1 to 3 Module	Each	7	109	763
	3.6.3	6 Module	Each	4	173	692
	3.6.4	8 Module	Each	15	200	3000
	3.6.6	12 Module	Each	4	267	1068
	4.00	**LUMINAIRS/LIGHTS FIXTURES & ACCESSORIES**				
20	4.4	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp.	Each	9	952	8568
24	4.23	Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply.	Each	11	648	7128
25	4.29	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition				
25	4.29.2	LED light fighting 4' - 28 watts	Each	15	1774	26610

	Sl no	Description of Work	unit	Qty	Rate	Amount
25	4.31	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring. 5 years Warranty against any manufacturing defect working under standard electrical condition.	No	18	1868	33624
25	4.32	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing shall be with powder coated pressure die cast aluminum alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection like over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on constant current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens. 5 years Warranty against any manufacturing defect working under standard electrical condition.	No	12	4945	59340
						176217.00

CERTIFICATE:

1) Certified that the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4) The rates in the Estimate is based on the KPWD (Elect) SR 2014-15.

Assistant Engineer
Yelahanka Project
BBMP

Assistant Executive Engineer
Yelahanka Project
BBMP

Assistant Executive Engineer
Project Division
Yelahanka Zone
Bangalore

"NO CORRECTIONS NIL"
"DTS APPROVED"

Executive Engineer
Yelahanka Project
BBMP

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

9/9/19

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.